

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0012	Overall LMA Rating	Total LMA Miles						
Solano County Public Works Mellin Levee	U	0.59						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.12		0.12	20.24%				
Encroachments					0.76			
Erosion / Bank Caving	0.01		0.01	1.69%				
<i>LMA Totals:</i>	0.13	0.00	0.13	21.93%	0.76	0.00	0.00	0.00

Unit No. 01 Mellin Levee RB	Overall Unit Rating	Total Unit Miles						
NA0012	U	0.59						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.12		0.12	20.24%				
Encroachments					0.76			
Erosion / Bank Caving	0.01		0.01	1.69%				
<i>Unit Totals:</i>	0.13	0.00	0.13	21.93%	0.76	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Fall 2018 Levee Inspection Results****Solano County Public Works Mellin Levee**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Solano County Public Works Mellin Levee

Waterway			Bank	Unit Miles
Unit No. 01 Mellin Levee			Right	0.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/10/2018 - 4/10/2018		10/10/2018 - 10/10/2018	
DWR Inspector	Keith Millard		David Julian	
Accompanied By	Jeff Barich Solano County Water Agency		Jeff Barich Solano County Water Agency	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	10/10/2018 10/10/2018	David Julian

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_NA0012_01_s_2013_6				
Comment Code					
Inspector Comment					
LMA has a copy of the O & M Manuals on file at the office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_NA0012_01_s_2013_7				
Comment Code					
Inspector Comment					
LMA has an adequate supply of flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_NA0012_01_s_2013_9				
Comment Code					
Inspector Comment					
LMA trained in 2017 and will attend training in 2018.					

No Photos

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	10/10/2018 10/10/2018	David Julian

LM Start	0.01	Rating **	C	Issue No.	10
LM End	0.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174133°	38.180069°
				-121.674351°	-121.682003°
DWR ID	DWR_NA0012_01_s_2018_10				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	0.01	Rating **	M	Issue No.	3
LM End	0.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174167°	38.180084°
				-121.674312°	-121.681992°
DWR ID	DWR_NA0012_01_s_2012_3				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2018_NA0012_258_3_20180925_00002.jpg



Looking west at fence on waterside shoulder.

LM Start	0.03	Rating **	C	Issue No.	8
LM End	0.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174356 °	38.174834 °
				-121.674600 °	-121.675159 °
DWR ID	DWR_NA0012_01_f_2017_8				
Comment Code					
EQ : Equipment					
Inspector Comment					
Tractor trailers and equipment at landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	10/10/2018 10/10/2018	David Julian

LM Start	0.10	Rating **	M	Issue No.	4
LM End	0.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175115 °	38.176805 °
				-121.675463 °	-121.677893 °
DWR ID	DWR_NA0012_01_s_2012_4				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2018_NA0012_258_4_20180925_00003.jpg



Looking southeast at fence on landward slope.

LM Start	0.12	Rating **	M	Issue No.	11
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.175333 °	38.175333 °
				-121.675780 °	-121.675780 °
DWR ID	DWR_NA0012_01_f_2018_11				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion at land side toe.					

Photo 1 of 1 : FA_2018_NA0012_258_11_20181011_00007.jpg



View of erosion into water side toe (October 2018).

LM Start	0.18	Rating **	M	Issue No.	5
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.175925 °	38.176615 °
				-121.676618 °	-121.677528 °
DWR ID	DWR_NA0012_01_f_2018_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation up to fence					

Photo 1 of 1 : FA_2018_NA0012_258_5_20181011_00006.jpg



View of vegetation on the land side slope that should be remove to the fence (October 2018).

*** Location**

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**** Rating**

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M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Levee Inspection Report By Mile - Fall 2018

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	10/10/2018 10/10/2018	David Julian

LM Start	0.50	Rating **	M	Issue No.	1
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.179138 °	38.179638 °
				-121.680727 °	-121.681370 °
DWR ID	DWR_NA0012_01_f_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation to bottom of land side slope.					

Photo 1 of 1 : FA_2018_NA0012_258_1_20181011_00005.jpg



View of vegetation on land side slope that should be removed (October 2018).

LM Start	0.58	Rating **	C	Issue No.	2
LM End	0.58	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179951 °	38.179951 °
				-121.681854 °	-121.681854 °
DWR ID	DWR_NA0012_01_f_2015_2				
Comment Code					
TA : Tank					
Inspector Comment					
Water tank and fencing on waterward shoulder and slope.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement